



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,488	09/05/2003	Ryo Minoguchi	AA602M	8376

27752 7590 08/11/2005

THE PROCTER & GAMBLE COMPANY  
INTELLECTUAL PROPERTY DIVISION  
WINTON HILL TECHNICAL CENTER - BOX 161  
6110 CENTER HILL AVENUE  
CINCINNATI, OH 45224

EXAMINER

SPERTY, ARDEN B

ART UNIT	PAPER NUMBER
----------	--------------

1771

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/656,488

Applicant(s)

MINOGUCHI ET AL.

Examiner

Arden B. Sperty

Art Unit

1771

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**FINAL OFFICE ACTION**

1. Applicant's comments, submitted 5/10/05, have been carefully considered. The remarks are not found persuasive of patentability, as detailed herein.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. The previously stated rejection of claims 11 and 12 is withdrawn per Applicant's comments drawing the examiner's attention to an amended set of claims submitted 9/05/03. Both the amended set and the set used for examination purposes have the same date of submission.

***Claim Objections***

4. Preliminarily amended claims 11 and 12 are objected to because of the following informalities: The word "includes" should be replaced by --comprise--. Appropriate correction is required.

***Claim Rejections - 35 USC § 103***

5. Claims 1-3 and 6-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,558,363 to Keuhn, Jr. et al., in view of US 5,143,680 to Molnar et al, as stated in the previous office action.

6. Regarding claims 1, 7-8, 13, and 17, the Keuhn reference teaches an absorbent article comprising a topsheet, backsheet, and an absorbent body (second layer) disposed between the topsheet and backsheet (Abstract). The absorbent article further includes a surge management layer (first layer), disposed between the topsheet and the absorbent body, comprising a thermally bonded airlaid web of natural and synthetic fibers

Art Unit: 1771

(col. 26, lines 22+). Natural fibers include cellulosic fibers, as is taught earlier in the reference at column 12, lines 24-26. The synthetic fibers of the surge management layer include polymeric bicomponent fibers (col. 26, lines 40-50) and may include a polyolefin (col. 26, line 25). The material of the surge management layer is treated with a surfactant to impart wettability and hydrophilicity (col. 26, lines 30-36). The reference is silent with respect to specific surfactant compositions, therefore it would have been necessary for one of ordinary skill in the art to turn to additional relevant art to determine common and suitable surfactant compositions. The Molnar reference teaches an absorbent non-woven fibrous pad comprising cellulosic and thermoplastic fibers, used in the same capacity as the material of the Keuhn reference, wherein phosphate esters are used as surfactants due to their moisture-wicking properties (col. 14, lines 9-27, 56-59). Therefore, it would have been obvious to one of ordinary skill in the art, having turned to additional prior art for specific surfactant compositions used in the same capacity, to use the phosphate esters taught by Molnar as the surfactant composition in the manufacture of the material of the Keuhn reference.

Regarding claims 2-3, absent a showing of unexpected results with the claimed phosphate esters, it would have been obvious to one of ordinary skill in the art to select the best type of phosphate ester based on the properties desired in the final product.

Regarding claims 6 and 16, while the Keuhn reference does not require specific density of the surge management layer, it would have been obvious to determine the workable density ranges for the intended use (col. 26, lines 10-14). Absent a showing of unexpected results with the claimed density, no patentable difference is seen between the prior art and the claimed invention.

Regarding claims 9-10, 12, and 16, the Keuhn reference teaches the inclusion of absorbent gelling materials (col. 12, lines 23-26) in the amount of 1 wt % to 90 wt % (col. 13, lines 46-53) in the absorbent material.

Regarding claim 11, the reference teaches varying anticipatory ranges of thermoplastic fibers present in the absorbent body layer of the absorbent material (col. 19, lines 26-36).

Regarding claim 14, the surge management layer, which is positioned between the topsheet and the absorbent body, can be of any desired shape, may extend over only a part of the absorbent body, and may be positioned anywhere along the absorbent body, thus anticipating the requirement that the first layer have a smaller area than the second layer. While the reference is not concerned with the thickness relationship of the surge management layer and the absorbent body, it would have been obvious to one of ordinary skill to determine the optimum thicknesses based on the ultimate intended use of the product.

Art Unit: 1771

Regarding claim 15, the reference teaches a variety of attachment means for connecting the various layers of the diaper components (col. 10, lines 26-38). Embossing is a well-known attachment means in the art, and is understood to be included in the broad teaching of the reference, "employing various types of suitable attachment means" (col. 10, line 27-28). Attachment means would be inherently required to maintain placement of the surge management layer. Therefore, it would have been obvious to one of ordinary skill in the art to attach the layers in a fashion meeting Applicant's claim limitations, motivated by a need to maintain placement of the surge management layer.

7. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keuhn as applied to claim 1 above, and further in view of US 5,969,026 to Mor et al, as stated in the previous office action.

8. As stated above, the Keuhn reference teaches an absorbent article comprising a topsheet, backsheet, and an absorbent body (second layer) disposed between the topsheet and backsheet (Abstract). The absorbent article further includes a surge management layer (first layer), disposed between the topsheet and the absorbent body, comprising a thermally bonded airlaid web of natural and synthetic fibers (col. 26, lines 22+). Natural fibers include cellulosic fibers, as is taught earlier in the reference at column 12, lines 24-26. The synthetic fibers of the surge management layer include polymeric bicomponent fibers (co. 26, lines 40-50) and may include a polyolefin (col. 26, line 25). The material of the surge management layer is treated with a surfactant to impart wettability and hydrophilicity (col. 26, lines 30-36). The reference is silent with respect to specific surfactant compositions, therefore it would have been necessary for one of ordinary skill in the art to turn to additional relevant art to determine common and suitable surfactant compositions. The Mor reference refers to the known use of surfactants, such as the ones claimed by Applicant, in the textile art to increase wettability of fibers (col. 2, line 61- col. 3, line 9). Therefore, it would have been obvious to one of ordinary skill in the art, having turned to the related prior art for specific surfactant compositions used in the same capacity, to use the surfactants taught by Mor in the manufacture of the material of the Keuhn reference. Absent a showing of unexpected results with the specific esters of claims 2-5, it would have been obvious to one of ordinary skill in the art to select the best type of surfactant based on the properties desired in the final product.

***Response to Arguments***

9. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the examiner's conclusion was based on the finding that it has been held to be within the general level of skill of one in the art to select a known material on the basis of its suitability for the intended use. *In re Leshin*, 125 USPQ 416. The examiner provided references showing the claimed surfactants as generally known in the art. The examiner remains of the originally stated position for combining the references. Absent a showing of unexpected results, the composition and the claimed invention do not provide patentable distinction over the prior art.

10. Applicant's other argument, with respect to claims 16 and 17, is that the claimed density is novel because the prior art did not perform the exact same tests as Applicant. The argument is not persuasive because when the structural limitations are met, the property limitations will automatically follow. It remains the examiner's position that determining the optimal density would be obvious to one of ordinary skill in the art, absent a showing of unexpected results. When the structural limitations are met, the material's reaction to pressure will follow accordingly.

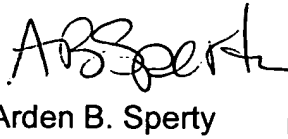
**Conclusion**

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
12. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

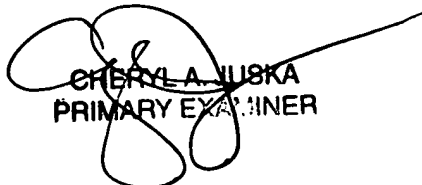
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arden B. Sperty whose telephone number is (571)272-1543. The examiner can normally be reached on M-Th, 08:00-16:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571)272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Arden B. Sperty  
Examiner  
Art Unit 1771

July 28, 2005

  
CHERYL A. JUSKA  
PRIMARY EXAMINER